CEVE 480 Senior Design
Spring 2022 Syllabus

Course Information

CEVE 480 is a continuation of CEVE 481 Senior Design. The projects identified and scoped in the fall semester will be taken to a design level implementing the knowledge you have gained during your previous years. Per Rice directive, the year will begin as 100% remote for the initial 2 weeks. We will be able to meet in person January 27th. It is important that you actively participate in class. Class participation is part of the evaluation.

The 7 projects developed as concepts in the Fall Semester will be further developed into a final report and presentation to a jury. It is important that each one of you participate and play a significant role in your team's report and presentations. There will be workshops on each project where the whole class is to participate in developing the projects.

This semester in CEVE 480, you will be asked to make two presentations. The first presentation will be an interim design report in which you will present your project in a schematic format, discuss your research on the project and present what still needs to be coordinated and designed, where you are on budget and schedule for the project, and any required additional services and special considerations needed to complete the project. The other project teams will be allowed and encouraged to question your team regarding its presentation to obtain information they need and to question what was presented. The last presentation will be on the final design of your project. A written report will be required to document the body of work for your project.

There is an assignment to enter a project poster in the 2022 Engineering Design Showcase and Poster Session on April 14th. The Design Showcase requires each team to register ahead of time. You will need to attend the competition to present your project to the judges. These presentations along with class participation, your written project report and your project poster will determine your grade in CEVE 480.

Your grades will be based on your class participation, the effectiveness of your team, the quality of your work, the creativeness of your solutions and the quality of the presentations. Class participation is the most important of all. You are expected to participate in class discussions, ask questions about the other teams' projects and presentations, and spend quality team time during that portion of the class.

You are encouraged to find out as much as you can on your own before asking questions. Much of learning is in the pursuit of an answer. These projects have sponsors, and you are encouraged to hold regular meetings with the sponsors to get feedback on progress.

Grading

The following are the basis of grading:

• Teamwork	5%
• Class Participation	5%
• Assignments	15%
• Poster	15%
• Project Progress Presentation	20%
• Final Design Presentation	20%
• Report	20%

In addition, there will be up to 3 extra credit points for those who actively contribute to class discussions on a regular basis, ask quality questions of presenters, and for extra effort on preparing assignments.

Instructors

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